1176-37-202   **Mark F Demers***, 1073 North Benson Road, Fairfield, CT 06824. *Projective cones for dispersing billiards.*

We describe the recent construction of Birkhoff cones which are contracted by the action of transfer operators corresponding to dispersing billiard maps. The explicit contraction provided by this construction permits the study of statistical properties of a variety of sequential and open billiards. We will discuss some applications of this technique to chaotic scattering and the random Lorentz gas. This is joint work with C. Liverani. (Received January 23, 2022)